

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Micheal Van Loy on Tuesday, August 24, 2010.

IN THE CLAIMS

Please **AMEND** claims 14, 34-35 without prejudice or disclaimer.

Please **AMEND** claims 14, 34-35 as follow:

14. (Currently Amended) A method comprising:
receiving, at an exchange infrastructure implemented on one or more processors, data from a heterogeneous external data source implemented on one or more other machines, the data comprising a data format that is native to the heterogeneous external data source and not compliant with any of one or more extensible markup language protocols used by an integration server of the exchange infrastructure;

instantiating, using an adapter engine implemented on the exchange infrastructure, an inbound adapter based on the data format used by the heterogeneous external data source, the adapter engine configured to dynamically instantiate and host a plurality of inbound and outbound adapter pairs, each of the plurality of inbound and outbound pairs being instantiated for an associated data format used by one of a plurality, of

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heterogeneous external data sources, each of the instantiated inbound and outbound adapter pairs adapted to be configured, created, started, stopped, and terminated;

generating, at the inbound adapter, a message that conforms to at least one of the one or more extensible markup language protocols used by the integration server, the message comprising at least part of the data received at the exchange infrastructure;

persisting, at the inbound adapter, a message identifier that identifies the message for re- sending of the message in case delivery of the message to the integration server fails;

passing, through the inbound adapter, the message to the integration server;

receiving, at the inbound adapter from the integration server, a confirmation acknowledgement confirming receipt of the message by the integration server; and

processing, at the inbound adapter, the confirmation acknowledgment to prevent the message from being resent.

34. (Currently Amended) A system comprising:

at least one processor; and

at least one memory storing instructions that cause the at least one processor to perform operations comprising:

receiving, at an exchange infrastructure implemented on the at least one processor,

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data from a heterogeneous external data source implemented on one or more other machines, the data comprising a data format that is native to the heterogeneous external data source and not compliant with any of one or more extensible markup language protocols used by an integration server of the exchange infrastructure;

instantiating, using-an adapter engine implemented on the exchange infrastructure integration server on the at least one processor, an inbound adapter based on the data format used by the heterogeneous external data source, the adapter engine configured to dynamically instantiate and host a plurality, of inbound and outbound adapter_pairs, each of the plurality, of inbound and outbound pairs being instantiated for an associated data format used by one of a plurality of heterogeneous external data sources, each of the instantiated inbound and outbound adapter pairs adapted to be configured, created, started, stopped, and terminated;

generating, at the inbound adapter, a message that conforms to at least one of the one or more extensible markup language protocols used by the integration server, the message comprising at least part of the data received at the exchange infrastructure;

persisting, at the inbound adapter, a message identifier that identifies the message for re-sending of the message in case delivery of the message to the integration server fails;

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passing, through the inbound adapter, the message to the integration server;

receiving, at the inbound adapter from the integration server, a confirmation acknowledgement confirming receipt of the message by the integration server; and

processing, at the inbound adapter, the confirmation acknowledgment to prevent the message from being resent.

35. (Currently Amended) An article comprising a non-transitory machine-readable medium configured to provide instructions to at least one programmable processor, the instructions causing the programmable processor to perform operations comprising:

receiving, at an exchange infrastructure implemented on the programmable processor, data from a heterogeneous external data source implemented on one or more other machines, the data comprising a data format that is native to the heterogeneous external data source and not compliant with any of one or more extensible markup language protocols used by an integration server of the exchange infrastructure;

instantiating, using an adapter engine implemented on the exchange infrastructure, an inbound adapter based on the data format used by the heterogeneous external data source, the adapter engine configured to dynamically instantiate and host a plurality, of inbound and outbound adapter pairs, each of the plurality, of inbound and outbound

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pairs being instantiated for an associated data format used by one of a plurality of heterogeneous external data sources, each of the instantiated inbound and outbound adapter pairs adapted to be configured, created, started, stopped, and terminated;

generating, at the inbound adapter, a message that conforms to at least one of the one or more extensible markup language protocols used by the integration server, the message comprising at least part of the data received at the exchange infrastructure;

persisting, at the inbound adapter, a message identifier that identifies the message for re-sending of the message in case delivery of the message to the integration server fails;

passing, through the inbound adapter, the message to the integration server;

receiving, at the inbound adapter from the integration server, a confirmation acknowledgement confirming receipt of the message by the integration server; and

processing, at the inbound adapter, the confirmation acknowledgment to prevent the message from being resent.

Allowable Subject Matter

Claims 14-16, 23-35 are allowed in view of the cited prior art of record and the prosecution history of the instant application, from which the reasons for allowance are clear.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BARBARA N. BURGESS whose telephone number is (571)272-3996. The examiner can normally be reached on M-F (8:00am-4:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Barbara N Burgess/

Barbara N Burgess

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